## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P450869 KJR			mittal of International Search Report well as, where applicable, item 5 below.
International application No. PCT/NZ01/00228	International filing date (day)	• ' ' ' '	Earliest) Priority Date (day/month/year) 7 October 2000
Applicant	10 0010001 2001		7 October 2000
DIATRANZ LIMITED et al			
This international search report has been prep Article 18. A copy is being transmitted to the	ared by this International Searc International Bureau.	ching Authority and is	s transmitted to the applicant according to
This international search report consists of a to	otal of 4 sheets.		
It is also accompanied by a c	opy of each prior art document	t cited in this report.	
1. Basis of the report			
a. With regard to the language, the is which it was filed, unless otherwis	nternational search was carried e indicated under this item.	out on the basis of th	ne international application in the language in
the international search wa (Rule 23.1(b)).	s carried out on the basis of a t	translation of the inter	rnational application furnished to this Authority
b. With regard to any nucleotide and carried out on the basis of the sequ	l/or amino acid sequence discluence listing:	losed in the internatio	onal application, the international search was
contained in the internation	nal application in written form.		
filed together with the inte	mational application in compu	ter readable form.	
furnished subsequently to	his Authority in written form.		
furnished subsequently to t	his Authority in computer read	lable form.	
the statement that the subse	equently furnished written sequent furnished.	ience listing does not	go beyond the disclosure in the international
the statement that the infor furnished	mation recorded in computer re	eadable form is identi	cal to the written sequence listing has been
2. Certain claims were found	unsearchable (See Box I).		
3. Unity of invention is lackin	g (See Box II).		
4. With regard to the title, $X$	the text is approved as submit		
	the text has been established b	by this Authority to re	ead as follows:
5. With regard to the abstract, X	The text is approved as submitt	ted by the applicant	.~
	The applicant may, within one submit comments to this Autho	month from the date ority.	2(b), by this Authority as it appears in Box III. of mailing of this international search report,
6. The figure of the <b>drawings</b> to be publish	ned with the abstract is Figure?	No.	
	As suggested by the applicant.		X None of the figures
1	Because the applicant failed to	suggest a figure	
	Because this figure better chara	acterizes the invention	1

#### PCT/NZ01/00228

#### A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7:

A61K 35/39, A61P 3/10

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC AS ABOVE

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

AU: IPC AS ABOVE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Chamical Abstacts, WPAT, MEDLINE: porcine/pig\*/swine, islet/langerhans/pancreas, sertoli, insulin

C.	DOCUMENTS CONSIDERED TO BE RELEVAN	Г			
Category*	Citation of document, with indication, where app	Relevant to claim No.			
Y	London N.J. et al "A simple method for the collagenase digestion of the human pancrea pp1109-13, (June 1990)	1, 12, 16, 53			
Y	Selawry, H.P. et al "Sertoli cell-enriched fra transplantation" Cell Transplantation 2 pp1 Discussion (1993)	1, 12, 16, 53,			
Х	Korbutt, G.S. et al "Cotransplantation of allogenic islets with allogenic 1, 12, 16, 53 testicular cell aggregates allows long-term graft survival without systemic immunosuppression" Diabetes 46 pp317-322 (February 1997)				
X	Further documents are listed in the continuati	on of Box C X See patent fan	nily annex		
"A" docur not co "E" earlie the in "L" docur or wh anoth "O" docur or oth "P" docur	ment defining the general state of the art which is considered to be of particular relevance or application or patent but published on or after atternational filing date ment which may throw doubts on priority claim(s) aich is cited to establish the publication date of the citation or other special reason (as specified) ment referring to an oral disclosure, use, exhibition the ment published prior to the international filing date that the priority date claimed	priority date and not in conflict with understand the principle or theory undocument of particular relevance; the be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive combined with one or more other succombination being obvious to a pers	the application but cited to derlying the invention e claimed invention cannot usidered to involve an taken alone e claimed invention cannot e step when the document is ch documents, such on skilled in the art		
Date of the act	ual completion of the international search	Date of mailing of the international sear	ch report 1 1 MAR 2002		
	ling address of the ISA/AU	Authorized officer			
PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA s: pct@ipaustralia.gov.au (02) 6285 3929	K.G. ENGLAND Telephone No: (02) 6283 2292			

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ01/00228

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	**************************************
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Rayat, G.R. et al "Potential application of neonatal porcine islets as treatment for type 1 diabetes: a review" Annals of the New York Academy of Sciences 875 pp175-188 (18 June 1999)	1-4, 12, 17, 18, 53
P, Y	Suarez-Pinzon, W. et al "Testicular Sertoli cells protect islet beta-cells from autoimmune destruction in NOD mice by a transforming growth factor-beta1-dependent mechanism" Diabetes 49 pp1810-1818 (November 2000)	1, 12, 53
Р, Ү	Luca, G. et al, "Sertoli cell-induced reversal of adult rat pancreatic islet beta-cells into fetal-like status: potential implications for islet transplantation in type 1 diabetes mellitus" Journal of Investig. Medicine 48 (6) pp441-448 November 2000	1, 12, 36, 53
Y	Selawry, H.P. et al "Sertoli cell-induced effects on functional and structural characteristics of isolated neonatal porcine islets" Cell Transplantation 5 (5) pp517-524 (1996)	1-4, 12, 44, 53
Α	Calafiore, R. et al "Transplantation of pancreatic islets contained in minimal volume microcapsules in diabetic high mammalians" Annals of the New York Academy of Sciences" 875 pp219-232 (1999)	
Α	AU 81864/98 A (Diatranz Limited) (11 March 1999)	
P, A	US 6146653 A (Diatranz Limited) (14 November 2000)	

# INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/NZ01/00228

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	nt Document Cited in Search Report	Patent Family Member				
US	6146653	US	6090400	NZ	250834	
AU	81864/98	NONE				
						END OF ANNEX